

Appl. No. 10/658,823
Amdt. dated May 15, 2006
Reply to Office Action of March 15, 2006

PATENT

Listing of Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-35 (Cancelled)

1 36. (Previously Presented) A method of identifying an inhibitor of a
2 glycosyltransferase that transfers a monosaccharide from a sugar nucleotide to an
3 acceptor substrate, the method comprising contacting the glycosyltransferase, an acceptor
4 substrate, and a donor substrate with a hydrophobic, non-carbohydrate test compound
5 that inhibits interaction of a sugar with hydrophobic amino acids in the active site of the
6 glycosyltransferase and determining the degree to which the activity of the
7 glycosyltransferase is inhibited in the presence of the test compound.

1 37. (Previously Presented) The method of claim 36, wherein the activity
2 of the glycosyltransferase is determined using an antibody that is specifically
3 immunoreactive with a product of the reaction catalyzed by the glycosyltransferase.

1 38. (Previously Presented) The method of claim 37, which is an ELISA
2 format.

1 39. (Previously Presented) The method of claim 36, wherein the
2 glycosyltransferase is expressed in a recombinant cell.

1 40. (Previously Presented) The method of claim 36, wherein the donor
2 substrate or acceptor substrate is labeled.

1 41. (Previously Presented) The method of claim 40, wherein the label is a
2 radioactive label.

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1 42. (Previously Presented) The method of claim 41, which is a
2 radioactive column assay.

1 43. (Previously Presented) The method of claim 40, wherein the label is a
2 fluorescent label.

1 44. (Previously Presented) The method of claim 36, wherein the
2 glycosyltransferase is a fucosyltransferase.

1 45. (Previously Presented) The method claim 36, wherein the
2 glycosyltransferase is a sialyltransferase.

1 46. (Previously Presented) The method claim 36, wherein the
2 glycosyltransferase is an *N*-acetylglucosaminyltransferase.

1 47. (Previously Presented) The method of claim 36, wherein the
2 compound comprises an aromatic or aliphatic ring structure.

1 48. (Previously Presented) The method of claim 36, wherein the
2 compound comprises an aryl moiety.

1 49. (Previously Presented) The method claim 36, wherein the compound
2 comprises a heteroaryl moiety.

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- 1 50. (Currently Amended) The method of claim ~~25~~ 49, wherein the
- 2 heteroaryl moiety is selected from the group consisting of a thiophene, pyridine,
- 3 isoxazole, phthalimide, pyrazole, indole, quinoline, phenothiazine, carbazole,
- 4 benzopyranone, and a furan group.